SAMPLING TRIP REPORT

SITE NAME:

Bayonne Barrel & Drum TDD #: 02-98-09-0023 DCN #: START-02-F-03245

EPA I.D. NO.:

E,RS

SAMPLING DATES:

November 30 - December 2, 1998

1. Site Location:

Bayonne Barrel & Drum 150-154 Raymond Boulevard

Newark, Essex County, New Jersey

2. Sample Descriptions:

Refer to Table 1, the Site Location Map and the Chain of

Custody Records (Attachment A) for sample descriptions,

Odor

types, and parameters.

3. Laboratory Receiving Samples:

Sample Type	Name and Address of Laboratory	<u>Parameters</u>
Groundwater	Compuchem Environmental Corp. 501 Madison Avenue Cary, NC 27573 (919) 379-4100	TAL Metals, Full TCL, Ammonia, Color, Fluoride Hardness, Odor, Nitrate, Nitrite, Oil & Grease, TPH (Total Petroleum Hydrocarbons), TDS (Total Dissolved Solids)

Groundwater

Microbac Environmental Laboratory

817 Castlehayne Drive Fayettville, NC 28303

(910) 864-1920

4. Sample Dispatch Data:

On November 30, 1998, at 1830 hours, a total of four groundwater samples plus a Rinsate Blank and Trip Blank were shipped to Compuchem Environmental Corporation via Federal Express (Air Bill #809608931423) for analysis of the parameters listed above.

On December 1, 1998, at 1730 hours, a total of five groundwater samples plus a Rinsate Blank and a Trip Blank were shipped to Compuchem Environmental Corporation via Federal Express (Air Bill #4811726883) for analysis of the parameters listed above.

On December 2, 1998, at 1745 hours, a total of four groundwater samples plus a Rinsate Blank and a Trip Blank were shipped to Compuchem Environmental Corporation via Federal Express (Air Bill #809608924650) for analysis of the parameters listed above.

On December 2, 1998, at 1745 hours, five groundwater samples plus a Rinsate Blank were shipped to Microbac Environmental Laboratories via Federal Express (Air Bill #809608924649) for odor analysis.

5. On-Site Personnel:

Name	Affiliation	Duties on Site
John F. Brennan	START II	Project Manager, Site QA/QC
Thomas O'Neill	START II	Sample Management Officer
Christoph Stannik	START II	Sampling
Matthew Coppolecchia	START II	Sampling
Anthony Vandeven	START II	Sampling
William Waddleton	START II	Sampling
Joseph Cosentino	EPA	Task Monitor

6. Additional Comments:

All of the monitoring wells examined during this exercise were purged and sampled following U.S.E.P.A. Region II Low Stress Ground Water Sampling Standard Operating Procedures, with the exception of monitoring well BBD-C5.

Monitoring well Well B is the duplicate sample of LB-MW2. The MS/MSD sample for this event was collected at monitoring well BBD-C3.

A Rinsate (Equipment) Blank was collected each day of sampling to verify the decontamination level of the pumps. The Rinsate Blank was collected by running distilled/deionized water through a decontaminated pump, directly into the sample jars. A Trip Blank was also collected each day of sampling and analyzed for TCL volatiles. All of the samples collected for TCL volatile analysis each day were shipped in the same cooler as the Trip Blank collected on that day.

Monitoring well BBD-C5 was sampled with a Teflon bailer. The inadequate volume of standing groundwater in the well (1.5L) and the historically poor recharge of the well made the low-stress pumping procedure impractical. On December 1, 1998, one volume of the well was purged and water quality readings were collected. This task however, dried the well. The well was allowed to recharge for a few hours and then sampled for TCL volatiles, TAL metals, ammonia, color, fluoride, hardness, nitrate, nitrite, odor, oil & grease, TPH and TDS. The well was then observed to be dry again. On December 2, 1998, START returned to the well and sampled for

TCL extractables and resampled for odor at the request of the laboratory. The odor sample collected on December 1, 1998 did not contain sufficient volume for analysis.

Monitoring well 2614909-5 was originally observed during the well redevelopment activities to contain a Light Non-Aqueous Phase Liquid (LNAPL) on top of the water table. The Sampling Workplan for this event called for sampling of this product layer. However, investigation of the monitoring well on December 2, 1998, found that there was only a sheen of LNAPL present. Since the sheen was not of sufficient volume to sample, only the aqueous phase (groundwater) was sampled. The vapor reading measured at the top of the inner casing of this monitoring well was 69 ppm. The vapor reading measured in the breathing zone was <1 ppm. As a precaution, the START personnel responsible for sampling this monitoring well were required to wear Level C PPE as defined in the Sampling Workplan.

START was informed by Compuchem on December 2, 1998, that the samples which were to be analyzed for odor would be subcontracted to Microbac Environmental Laboratories. Since the holding time for the odor analysis is 48 hours, Compuchem asked START to send the samples to be analyzed for odor directly to Microbac Environmental Laboratories. START complied with this request and sent the samples collected from monitoring wells BBD-C5, 2614920, 2614909-5, LB-MW1 and BBD-C1 and RIN-003 directly to Microbac Environmental Laboratories.

START was also notified by Compuchem on December 2, 1998, that the sample jars for nitrate and nitrite analysis did not need to be preserved with sulfuric acid. At this point, only monitoring wells BBD-C1, LB-MW1 and the Rinsate Blank (RIN-003) remained to be sampled. These three samples were the only samples not preserved with sulfuric acid. All of the other samples which were preserved with sulfuric acid were discarded by Compuchem. The sample for the nitrate and nitrite analysis was taken from the TCL extractable samples by Compuchem.

Monitoring well BBD-C2 was found to be collapsed during the monitoring well redevelopment exercises that took place the week of November 8, 1998. BBD-C2 could not be sampled.

Sample descriptions and locations are provided in Table 1. Weather conditions for all three days of sampling consisted of clear skies and temperatures ranging from 55-60°F, and winds from 15-20 mph.

7. Report Prepared by:

John F. Brennan, START

Report Reviewed by;

.

Thomas O'Neill, START Group Leader

Date: 12/10/98

TABLE 1 SAMPLE LOCATIONS AND DESCRIPTIONS

SAMPLE ID	DATE	TIME	PID READING* (ABOVE BACKGROUND)	NOTES
LB-MW1	12/2/98	1540	0 ppm	
LB-MW2	11/30/98	1615	0 ppm	
LB-MW3	12/1/98	1210	0 ррт	-
WELL A	11/30/98	1215	6.4 ppm	-
WELL B	11/30/98	1630	N/A	Duplicate of LB-MW2
MW-29WA	12/1/98	1500	6.6 ppm	
2614909-5	12/2/98	1110	69 ppm	LNAPL sheen present on top of the sample
2614920	12/2/98	1115	0.4	Foaming observed during purging
BBD-C1	12/2/98	1500	0 ppm	
BBD-C3	12/1//98	1200	0 ppm	MS/MSD collected at this well
BBD-C4	11/30/98	1300	3 ррт	
BBD-C5	12/1/98 & 12/2/98	1530 & 0835	5.8 ppm	Sample was collected over a two day period
RIN-001	11/30/98	1545	N/Å	Rinsate Blank for 11/30/98
RIN-002	12/1/98	0945	N/A	Rinsate Blank for 12/1/98
RIN-003	12/2/98	1255	N/A	Rinsate Blank for 12/2/98
TB-01	11/30/98	1030	N/A	Trip Blank for 11/30/98

SAMPLE ID	DATE	TIME	PID READING* (ABOVE BACKGROUND)	NOTES
TB-02	12/1/98	0930	N/A	Trip Blank for 12/1/98
TB-03	12/2/98	0950	N/A	Trip Blank for 12/2/98

^{*}Organic vapor readings taken with a Photovac Microtip HL-2000 photo-ionization detector (PID) at the top of the well casing

DWR-020 8/97

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

WELL ABANDONMENT REPORT

MAIL TO: Bureau of Water Allocation		WELL PE	RMIT # $\frac{26-14909}{\text{of well sealed}}$
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEALED //	
PROPERTY OWNER BAYONNE BA	RREL + DA	· · · · · · · · · · · · · · · · · · ·	
ADDRESS 150-154 1 AYMON	10 BLVD.	NEWALK NJ	
WELL LOCATION SA^	-		SEX COUNTY
Street & No., Township	·····		/
MW29W	3 11		500Z
Well No.	Lot	No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	MONITOR	LIN'h	
REASON FOR ABANDONMENT: NOT	IN USE		
WAS A NEW WELL DRILLED? DYES	Ž NO	PERMIT # OF NEW V	VELL_
TOTAL DEPTH OF WELL VAKNOWA	Cross-section of sealed well	Draw a sketch showing distance nearest roads, buildings, etc.	e and relations of well site to
DIAMETER CASING LENGTH JNKNOWN			
SCREEN LENGTH	0		
NUMBER OF CASINGS	0		BLOG
MATERIAL USED TO DECOMMISSION WELL:	10/1		240
2 Gallons of Water		8	
282 Lbs. of Cement	79		
Lbs. of Bentonite Lbs. of Sand/Gtravel	1	35	50 ' ·
(none if well is contaminated)	1-12		
FORMATION: Consolidated	13	- NJ TURNO	PIKE
X_ Unconsolidated	S		♠N
To permit adequate grouting, the casing should be removed. Pressure grouting is the only according to the control of the casing should be removed.	remain in place, be opted method.	out ungrouted liner pipes or an	y other obstructions must
WAS CASING LEFT IN PLACE? X YES	NO CASING	MATERIAL: PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? TYES X NO	WHAT WERE THE OBSTRU	JCTIONS:
IF "YES", AUTHORIZATION GRANTED BY		ON	
Was an alternative decommissioning method us	(NJDEP sed? ☐ YES ⊠	Official)	(Date)
IF "YES", authorization granted by	/	ON	
	(NJDEP Official)		(Date)
I certify that this well was sealed in accorda	ance with N.J.A.C	, /)	•
ALBERT BAMBACE Performing Work (Print or Type)	BOU	NO BROOK NJ	12-4-98
Name of NJ Certified Well Sealer	albert.	Address Bambace	Mailing Date
		Certified Well Sealer	Registration #
COPIES: White - Water Allocation	Yellow - Owne	er Pink - Health Dept.	Goldenrod - Driller

SERIAL # 010447 STATE OF NEW JERSEY DWR-133M (10/96) 2652474 DEPARTMENT OF ENVIRONMENTAL PROTECTION Mail to TRENTON, NJ Permit No. NJDEP MONITORING WELL PERMIT **Bureau Water Allocation CN 426** VALID ONLY AFTER APPROVAL BY THE D.E.P. COORD #: Z6.Z3././3 Trenton, NJ 08625-0426 ONNE BARREL AND DRUM Summit Drilling Co., Inc. Driller_ Central Jersey Industrial Park Address . Chimney Rock Road, Building 9W Bound Brook, NJ 08805 Diameter Proposed Name of Facility of Well(s) Depth of Well(s) Inches Feet # of Wells Will pumping equipment Address Applied for (max. 10) be installed? YES 🗆 Type of Well If Yes, give pump (see reverse) A cumulative GPM capacity **LOCATION OF WELL(S)** Municipality Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch. State Atlas Map No. SIALE History FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED: This Space for Approval Stamp ☐ Spill Site ☐ ISRA Site WELL PERMIT APPROVED CERCLA (Superfund) Site N.J.D.E.P. CASE I.D. Number RCRA Site ☐ Underground Storage Tank Site **NOV -** 9 1998 ☐ Operational Ground Water Permit Site ☐ Pretreatment and Residuals Site ☐ Water and Hazardous Waste Enforcement Case BUREAU OF WATER ALLOCATION ☐ Water Supply Aquifer Test Observation Well ☐ Other (explain) ☐ Issuance of this permit is subject to the conditions attached. (see next page) The well(s) may not be completed with more than 25 feet of total screen **FOR** D.E.P. ' For monitoring purposes only or uncased borehole. USE SEE REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT. In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above. Registration No. 111512 Signature of Driller Signature of Owner Health Dept. — Yellow COPIES: Water Allocation -- White Owner - Blue Dritter - White

DWR-138 M 11/96

New Jersey Department of Environmental Protection Bureau of Water Allocation MONITORING WELL RECORD

			Well Pern	nit No	- 02414	
OWNER IDENTIFICATION - Owner	EAYONNE EARREL & DI	ROM	Atlas Shed	et Coordina	tes <u>26 : 23</u>	
Address 130 RAYMO	ND BLVD:					
City NEWARK			NJ		Zip Code	
WELL LOCATION If not the same as ov County RAYMOND ELVD.			s Well No Lo	MW t No. 3, 1 DATE WE	29WH Block N ELL STARTED	lo. 5002 1
TYPE OF WELL (as per Well Permit Cate Regulatory Program Requiring Well	egories)A MCNITORII	Ma	Case I.I		COMPETED	<u>//)_9_)9&</u>
CONSULTING FIRM/FIELD SUPERVISO	OR (if applicable)	ton (ossu	Ctarts	Tele. #	
WELL CONSTRUCTION Total depth drilled/ft.	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Well finished toft.	Single/Inner Casing	+3	5	4	PVC	Sch 40
Borehole diameter: Top in. Bottom in.	Middle Casing (for triple cased wells only)			·		
Well was finished: Pabove grade	Outer Casing (largest diameter)					
flush mounted	Open Hole or Screen (No. Used)	5	15	4	DVC	Schuo
If finished above grade, casing height (stick up) above land surfaceft.	Blank Casings (No. Used)			,		
Was steel protective casing installed? ☑Yes ☐ No	Tail Piece					
Static water level after drilling ft.	Gravel Pack	2	15		Morie#1	
Water level was measured using tope	Grout		7.		Neat Cement	94 lbs.
Well was developed for hours at gpm		0	<u> </u>	HA. H	Bentonite	_5_lbs.
Method of development		routing Morilling Me		Muses	y	
Was permanent pumping equipment installed	l? ∐Yes ☑Do					
Pump capacitygpm		Note e	ach depth wh	GEOLOC ere water w	GIC LOG as encountered in	consolidated
Pump type:		format				
Drilling Fluid Type	of Rig Hurrican	/ 	- 544			
Health and Safety Plan submitted? Yes [☐ No	ļ			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Level of Protection used on site (circle one)	None D C B A					
I certify that I have constructed the a accordance with all well permit requi State rules and requ	bove referenced well in rements and applicable lations					
Drilling Company		-			Ņ ·	
Well Driller (Print) Jeff Marc			\rightarrow			
Driller's Signature						
Registration No. M/5/2	Date // / /8/98					



ENVIRONMENTAL SPECIALISTS

Central Jersey Industrial Park Chimney Rock Road, Bldg. 9W Bound Brook, NJ 08805

Telephone: Toll Free:

(908) 722-4266

FAX:

(800) 242-6648 (732) 356-1009

WELL LOG

WELL: MW29WA

DATE DRILLED: 11/09/1998 COORD #1: 26.23.113

COORD #2:

PERMIT #1: 26-52474 PERMIT #2:

COUNTY: Essex

SITE: Bayonne Barrel and Drum, 150 Raymond Boulevard, , Newark, NJ OWNER: Bayonne Barrel and Drum, 150 Raymond Blvd., Newark, NJ

XSTREET: Highway 1 and /

USE: Monitor

INNER CASING: PVC DIAMETER:

SCREEN TYPE 1: PVC SCREEN TYPE 2:

DRILLING METHOD: Auger SAMPLING METHOD:

LENGTH:

DIAMETER: LENGTH:

OUTER CASING:

DIAMETER: LENGTH 1: 10' LENGTH 2:

: HOLE DIA: 10", 10" TOTAL DEPTH: 15'

SET WELL: 151 GRAVEL PK SZ: Morie #1 DRILLER:

GAL PER MIN: 1/2 STAT H20 LVL: 5'

SLOT SIZE: .010

CASING SEAL: Portland

Jeff MArchesi SURFACE COMPLETION: S

DEVELOPMENT METHOD: Pump DEVELOPMENT TIME: 1/2 Hour

OPEN HOLE:

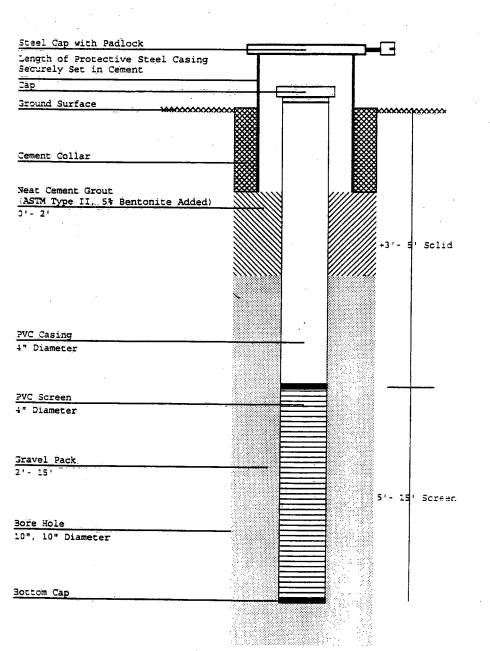
DEPTH BELOW SURFACE

BLOWS PER 6" ON SAMPLER

FROM - TO

REMARKS / SOILS IDENTIFICATION

0'- 6' Dark brown f/c sand & f/c gravel little clay, fill, ash, cinders. 6'- 15' Dark brown f/c sand & silty clay.



ATTACHMENT A CHAIN OF CUSTODY RECORDS

I	4	(
7	RFP No.:	•
	4384	
	PO'No.:	
	99168	

CHAIN OF CUSTODY RECORD

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM EPA CONTRACT 68-W5-0019

Phone: 908-225-6116 Fax: 908-225-7037

45.1.5 (\$2023800000)	
Matrix Box No.:	Preservative Box No.
1. Surface Water	1. HCI
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7 Waste	N. Not Preserved

7. Waste

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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

-
RFP No.:
4384
PO No.:

CHAIN OF CUSTODY RECORD

Matrix Box No.

Preservative Box No

1. Surface Water

1. HCI

2. Ground Water

2 HN03

3. Leachate

3. Na2SO4

4. Rinsate

6. Oil

4. H2SO4 5. Other (Specify)

5. Soil/Sediment

6. Ice Only N. Not Preserved

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM EPA CONTRACT 68-W5-0019

Phone: 908-225-6116 Fax: 908-225-7037

7. Waste 8. Other (Specify)

See Comments

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Roy F. Weston, Inc.

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Relinquished By:

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental
Management, C.C. Johnson & Malhotra, P.C., and GR8 Environmental Services, Inc.

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CHAIN	OF	CUST	ODY	RECORD
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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

EPA CONTRACT 68-W5-C019

Matrix Box No.:

Preservative Box No.:

1. Surface Water

1. HCl

2. Ground Water

2. HN03

3. Leachale

3. Na2SO4

4. Rinsate

4. H2SO4

5. SoiVSediment

5. Other (Specify) 6. Ice Only

6. Oil 7. Waste

N. Not Preserved

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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Maihotra, P.C., and GRB Environmental Services, Inc.

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Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

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Time

Reason for Change of Custody

Roy F. Weston, Inc.

Sample Number

FEDERAL PROGRAMS DIVISION

Relinquished By:

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

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Received By:

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Reason for Change of Custody

Reason for Change of Custody

1630

Time

1620

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Roy F. Weston, Inc.

Sample Number

Sample Number

Sample Number

FEDERAL PROGRAMS DIVISION

Relinquished By:

Relinquished By:

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

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Roy F. Weston, Inc.

Sample Number

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FEDERAL PROGRAMS DIVISION

Relinquished By:

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

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Roy F. Weston, Inc.

Sample Number

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FEDERAL PROGRAMS DIVISION

Relinquished By:

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.



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CHAIN OF CUSTODY RECORD

Matrix Box No.:

1. Surface Water

2. Ground Water

Preservative Box No.

1. HCI

2. HN03

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

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Received By:

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Reason for Change of Custody

Reason for Change of Custody

Roy F. Weston, Inc.

ALL

Sample Number

Sample Number

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management,

C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

Thous dell

Relinquished By:

Relinquished By:

RFP No

CHAIN OF C	USTODY	RECORD
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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

Phone: 908-225-6116 Fax: 908-225-7037

EPA CONTRACT 68-W5-0019

Matrix Box No.:

Preservative Box No.: 1. HCI

1. Surface Water 2. Ground Water

2. HN03

3. Na2SO4

3. Leachate

4. H2SO4

4. Rinsale 5. Soil/Sediment

5. Other (Specify) 6. Ice Only

6, 01 7. Waste

8. Other (Specify)

N. Not Preserved See Comments

Reason for Change of Custody

	_
Send verbal and written results to:	Roy F. Weston, Inc., USEPA
2500 ASLOSI WILL MILLION 1997	a in any 1000 Vine George

Region II START

Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703

Attention: Smita Sumbaly, START Analytical Coordinator

			Attenti	Sample							22,42,63	RCR	ANAL	YSIS	
ample Number	Sample Collection MWDD/YY/Time	Matrix (Enter	Low-L Med-M	Sample Type Comp-C Grab-G	Preserv. (Enter	VOA	BNA	PEST	PCSs	TAL	CN	IGN	COR	REAC	OTHER
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Received By:

Roy F. Weston, Inc.

Sample Number

Sample Number

FEDERAL PROGRAMS DIVISION

Relinquished By:

Relinquished By:

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

Time

CHAIN OF CUSTODY RECORD

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM EPA CONTRACT 68-W5-0019

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachale	3. Na2SO4
4 Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. ice Only
7 Maste	N. Not Preserved

19100		F	hone: 9	08-225-6	116 Fax:	908-225	-7037					7. wa 8. Oth	iste ter (Sp	ecify)	•	See Comm	ents
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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

[
1	RFP No.:
	4384
	PO No.:

Send verbal and written results to:

CHAIN OF CUSTODY RECORD

1. Surface Water 1. HCI 2 HN03 2. Ground Water 3 Na2SO4 3 Leachale 4. H2SO4 4. Rinsale 5. Other (Specify) 5. SciVSeciment 6. Ice Only 6. Oil

Matrix Box No.:

7. Waste

8. Other (Specify)

Preservative Box No.

N. Not Preserved

See Comments

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM EPA CONTRACT 68-W5-0019

Phone: 908-225-6116 Fax: 908-225-7037

Roy F. Weston, Inc., USEPA Region II START Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703

Attention: Smita Sumbaly, START Analytical Coordinator Sample | Sample | Sample | RCRA ANALYSIS OTHER Sample Collection | Sample | Conc. Preserv. VOA BNA PEST PCBs TAL ICOR IREAC Sample Number Type Low-L Mairix MM/DD/YY/Time Comp-C (Enter (Enler Med-M box #s) Grab-G High-H box #) ナ 11/30/98 1549 RIN-001 ナナ IT WATER KIP BLANK AUMONIA 4 11/20198 1545 RIN - 001 COLOR 4 FLUCRIDE HARDNESS NITRATE NITRITE ODOR. DIL + GREASE TOTAL PET. HYDRO. 4 TOME DISS. SOLIDS Comments: NEED SEPARATE NITRITE & NITRATE VANES Time Date (MWDD/YY) Person Assuming Responsibility for Sample: 11/30/98

THOUR DIEIL Reason for Change of Custody Received By: Date Sample Number | Relinquished By: Time ShippES TO LAR Poh 9 Bm.
Received By:

Del End RIN-001 11/3/98 D30 Reason for Change of Custody TO in Desille Sample Number Relinquished By: Date Time Z/N-001 Reason for Change of Custody Sample Number | Relinquished By:

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

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					Pn	one.										8. Ot	ner (Sp	ecify)		See Comments
Send ve	rbal and	writt	en res	sults to):		Roy F.	Wes	ton	, Inc., U	JSEP.	A Reg	gion I	STA	RT	\$7	· ·- T	no	027: 2:	703
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Received By:

Received By:

Reason for Change of Custody

Reason for Change of Custody

Roy F. Weston, Inc.

RIN-002

Sample Number

Sample Number

FEDERAL PROGRAMS DIVISION

Relinquished By:

Relinquished By:

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRS Environmental Services, Inc.

1730

Time

Time

Date

RFP No.:	١
4384	
PO No.:	
99.168	

CHAIN OF CUSTODY RECORD

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

EPA CONTRACT 68-W5-0019

Preservative Box No. Matrix Box No.: 1. HCI 1. Surface Water 2. HN03 2. Ground Water 3. Na2SO4 3. Leachate 4. H2SO4 . 4. Rinsate 5. Other (Specify) 5. Soil/Sediment 6. Ice Only 6. Oil

N. Not Preserved

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Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

FP No.:	CF	IAI	N(OF (CUS	STC)DY	K				N		ce Wa			1. HCl
- 46-40-10-10-10-10-10-10-10-10-10-10-10-10-10					- :		-		•					nd Wa			2. HN03
4384				•						.•				hate			3. Na2SO4
O No.:	·		٠.			*** .***	•		•	4.		4	. Rins	ate	•		4. H2SO4
	*				CAL AS		NT AND	RES	PONS	E TEA	M			Sedim	ent		5. Other (Specify)
99168	.,	SUPER											. Oîl '. Was	ta			6. Ice Only N. Not Preserved
19160				Phone: 9	908-225-6	116 Fax	908-225	-7037						r (Spe	cify)	_	See Comments
<i>-</i> ∙								ICED	A Reg	ion T	STA	RT			•		
end verbal and	writ	ten rest	ults to:			100	10 V ~	1	TPC PT	וא ואו	MU IJ		New	Jerse	y 08	837-3	1703
		٠.			Attenti	on: Sm	ita Sur	ibaly,	ŽIAI	KI A	naiyuc	al Co	DY CITTIC	RCRA			·
ample Number	Sa	mple Co	ollection	Sample	Conc.	Sample	Sample	****		ANAL	YSIS ₩	TAL L		GN	COR	REAC	OTHER
mple Humber		יייססיי		Matrix	Low-L		Preserv.	VOA	BNA	PE21	rcas	, A.	<u> </u>]
				(Enter	Med-M High-H	Comp-C	box #s)									<u> </u>	
200		los	2010		1L/M	G	6										ODOR
	114	298		1:,	1.	G	6								-		
RM-003	1		1255	+	1.7		17	1		 	 						
2614920			1115	12	16/M	+ -	6	-	-	-	1			-		İ	
2614909-5	_		1110	12	17/1		6	<u> </u>		╂	1				-		
LB-HW1			1540	2	14M	G	0	ļ			+-	-	<u> </u>	-	-	╁	1
BBD-C1	1		1500	12	14m	G	6	<u> </u>	—	-	╁	-	-		-	+-	-
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Comments:															_		·
	- 5		hilibi for	Sample	•						. :					ı	me Date (MINVDDYY)
Person Assumi	ng K	esponsii	. 1/	ے نظریانات	7	· Ele	00										600 12/2/98
Thomas		DNE	<u> </u>		run			Ro	ceived	By:						IR	eason for Change of Custon
Sample Number	r R	elinquis	ned By:			Time		,			9	مرجىء	~	مسيند		'	Shipped To Co
All		The	ws c	del	10	163		M	70							- IR	eason for Change of Custo
Sample Number	er F	Relinquis	hed By	7	1	Tim	e Date	Ke	ceived		1	? 4	0				
ALC		4	m	كما م	m	- 16-	e 7	8		75	2	7	X				eason for Change of Custo
1	- 1					!				1 Die		· ·				IR	eason for Change of Cusic

Received By.

Date

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

Sample Number Relinquished By:

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

ATTACHMENT B MONITORING WELL DATA SHEETS

MONITORING WELL SAMPLING LOG

	COMPANY: START II/Roy F. Weston, Inc	SAMPLE	NO.:	WI	÷ .
	CLIENT: U.S. EPA	DATE: _	11:1-98		
	SITE: Beyonde Burgel		RELAV		•
	ADDRESS:	<u>. </u>	• •		
	Minux anon	naz i Tronic	i.		
	WELL OBSE	KYAIIUNS	• • • • • 6	a	
	WELL CASING AND LID: INTACT - DAMAGED - MOVED - NONE	•	LOCKED: Y	7	_
	WELL DIAMETER: 2" 4" - 6" - 8"		STICKUP HE	· · · · · · · · · · · · · · · · · · ·	FT
	MEASURING POINT: TOP OF CASING	•			H_{-}
	VAPOR READITIOS: PID: BACKGROUND READING		INSIDE WEL		
	FID: BACKGROUND READING		INSIDE WEL	-	
	NAPL LAYER OBSERVED: FLT - SNK - NON SAMPLEI	HES-NO	THICKNESS		INCHES
	MEASURED - RECORDED PREVIOUSLY (A) DEPTH TO WATER: 7.82 FT (B) DEPTH TO WATER W/ PUMP IN THE WELL:	TIME ME TIME ME AMETERS INFO	ASURED /3/0	ACE	
TIME	TEMPERATURE PH CONDUCTIVITY C ms/cm	TURBIDITY	DESSOLVED OXYGEN	DEPTH TO	FLOW RATE
1430	15.3 - 6.75 1.50	18	127-1.19	WATER フ. む	ml/min. 500
1440	0.00	15	1.02/1/28	7.82	12-0
1415	3.8.7.	y	1.20	7.62	•
1450	15.1 1.788 1.52 /)	1.00	7.82	•
1500		7	0.50		
د الا سد ذ	14) 3 (-2)	3	0.40	800	

COMPANY: START IVROV F. Weston, Inc		SAMPLE NO. LB-Mal (Continued)
CLIENT: U.S. EPA	<u>.</u> .	DATE:
SITE:	• . •	SAMPLER:

RESS:	
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TIME	TEMPERATURE °C	pH	CONDUCTIVITY ms/cm	TURBIDITY	DESSOLVED OXYGEN	VOLUME GALLONS
15-10	15.7	6.77	1.54	2	0.62	`
1515	15.7	6.76	1.53	2	0.52	
1520	153	6.78	1,54	6	0.32	
1525	15.5	6.78	1.54	3	0.32	
1530	15.3	6.77	1.54	2	0.34	
1535	15.6	6.78	1.54	2	0.30	
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					<u> </u>	•

1.	STOPPED	PURGING	AT:	. 1000	

2. TOTAL VOLUME PURGED:

3. SAMPLED COLLECTED: 1540

MONITORING WELL SAMPLING LOG

co	MPANY: START I	I/Rov F. Westor	i. Inc	SAMPLE	NO.: _ LB-NW	<u>L</u>	
CL	IENT: U.S. EPA		•	DATE:	14 30198		
sn	TE: BAYON	NNE B+D		SAMPLE	2. B. WADDLET	TON C. ST.	ANNIK
		WARK					
	DRESS	· · · · · · · · · · · · · · · · · · ·					
•			WELL OF	SERVATIONS	•	Service Control	
w	FLI CASING AND LIE	INTACT DAY	AGED - MOVED - NO		LOCKED: (YI	Бо. мо	
	ELL DIAMETER: 2" -				STICKUP HE		FT
	EASURING POINT: TO				•		
	APOR READINGS: PIE		READING	0.3	INSIDE WEL	L CASING: O .	0
	FID	: BACKGROUND	READING		INSIDE WEL	L CASING:	<u> </u>
N/	APL LAYER OBSERVE	ED: FLT - SNK - NO	SAM	PLED: YES -NO	THICKNESS	·	_INCHES
· · · · · · · · · · · · · · · · · · ·					แรงใด	ALBON ODE	⊃ <i>R</i>
		(GROUNDWATER	LEVEL INFORMA		ALUUN CO.	
	MEASURED -	RECORDED PREVI	OUSLY				·
(A) DEPTH TO W	ATER:6	,70	FT TIME ME	EASURED / Y: Y	<u>0</u>	
(B	DEPTH TO W	ATER W/ PUMP IN	THE WELL: 6.70	_FT TIME MI	EASURED 14:5	<u>. 2</u>	
(C		ELL BOTTOM: PLETING SAMPLIN	(G)	FT TIME MI	EASURED		
	•	DYID CID		ARAMETERS INF	ODMATION		
, sie	mania 11ma11mi	•	11130/98	ARAMETERS IN	ORMATION		
	JRGING AND SAMPLI		P CENT. PUMP - OT	urb.			
	EVICE DESCRIPTION:	0.00	NOFOL RED			•	
	JMP/BAILER INTAKE				FT - WATER SURF	ACE	•
		_	ED - STORED ONSITE		V PI S WAIERSON	ACE	
	SKUED WATER DES	JIAKUJU - IKEAI	ED - STORED ONSITE	•			to the last of the
TIME	TEMPERATURE °C	pН	CONDUCTIVITY ms/cm	TURBIDITY	DESSOLVED OXYGEN	DEPTH TO WATER	FLOW RATE
15:08	16.6	6.44	1.56	47	1.59	6.80	500 mel min
15:15	17.0	6.48	1.635	46	1.67	6.78	500 nelmin
15:21	17.2	6.59	2.23	31	1.41	6.80	
15:27		6.70	2.89	18	1.71	6.80	500 mil min.
15:36	i .	6.71	3.04	15	1.62	6,80	
15:43	17.6	6.70	3.05	16	1.42	6.81	500 ml/min.

COMPANY: STA	RT II/Roy F. Weston	ı. Înc	_
CLIENT: U.S. EPA	· ·		
SITE: BA	HONNE B	+D	_
	100101		

SAMPLE NO.: LBHD2(Continued)

DATE: 11/30/98

SAMPLER: B. DADDLE YON / C. STANNIK

		₩					FLOWRAGE
TIME	TEMPERATURE °C	рĦ	CONDUCTIVITY mS/cm	TURBIDITY	DÉSSOLVED OXYGEN	DTW	
15:55	17.4	6,73	3,2/	8	1,44	6.82	
15:59 16:04 16:07	17.6	6.69 6.73	3.13	113	1.41	6.83	550 m/m
16:04	17.6	6.73	3.00	13	1.56	6.83	
16:07	17.6	6.75	3.25	13	1.44	6-83	600 ml/m
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		- 445-25	·	•			
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						<u>:</u>	
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1. STOPPED PURGING AT: 16:09

2. TOTAL VOLUME PURGED: 10 GALLONS

3. SAMPLED COLLECTED: 16:15

	COMPANY: STAR	T II/Roy F. West	on, Inc	SAMPL	ENO: LBMW	3	
	CLIENT: U.S. EPA	.		DATE:	12-01-9	8	
	SITE: B946	onne Bari	rel + Drum		ER: B. WODO/ET	. /	FINNIK
		NEWARK	:	SAMI L		1	1 - WIN
	FEDERESS				<u> </u>		
	W.			DOEDII I TUONG			
	WELL CASING AND	LID: DEJACE DA	VO CAD NAGED - N	DBSERVATIONS ONE	LOCKED	YES - NO	
	WELL DIAMETER:	2" (4") 6" - 8"		•	STICKUP H	EIGHT:	FÍ
	MEASURING POINT	: TOP OF CASING					
	VAPOR READINGS:	PID: BACKGROUND	reading	.0-	INSIDE WE	LL CASING:	0.0
		FID: BACKGROUNE	READING	<u> </u>	. INSIDE WE	LL CASING:	
	NAPL LAYER OBSE	RVED: FLT - SNK	SA)	MPLED: YES -NŐ	THICKNES	s:	INCHES
		·			··-		<u> </u>
<u>.</u>			GROUNDWATER	R LEVEL INFORMA	NOTT		• .
	MEASURE	D - RECORDED PREV	лоusly				.*
	(A) DEPTH TO	WATER: 4,0	0 3.700	FT TIME M	EASURED 10.50	<u> </u>	•
	(B) DEPTH TO	WATER W/ PUMP IN	THE WELL: 3.90	FT TIME M	EASURED 10:52	2	
	(C) DEPTH TO (AFTER CO	WELL BOTTOM: OMPLETING SAMPLI	12,7 NG)	_FT TIME M	EASURED 12, 5	<u> </u>	
				•			
			ng and water : 12–01–93	PARAMETERS IN	FORMATION		
	PURGING AND SAM		<u> </u>				i
			ip-cent.pump - 01 DFSJ REDIFIC			•	
į	DEVICE DESCRIPTION				4		·
:	PUMP/BAILER INTAI		-•	SCREENOWELL: 8.	FT - WATER SUR	FACE	•
,	PURGED WATER D	SCHARGEDY-TREA	TED - STORED ONSIT	Ë			
TIME	TEMPERATURI °C	pH	CONDUCTIVITY	TURBIDITY	DISSOLVED	DEPTH TO	FLOW RATE
NE E		710	mS/cm	4-	OXYGEN	WATER	ml/min.
1D 6	16.0	7.18	0.802	//	1.63	52	
1:16	16.4		0,809	 	1.71	5.15	300 H/H
		7.17	0.821	5	1.91	5,16	300 11
1:24		7.20	0.824	4	1.92	5.15	300,11
1 2 34		7.21	0.834	3	2.09(?)	5.17	300 u
1:44	16.	7.20	0.842	2	1-91	5 17	200

5 gallons justed @ 11:50

SAMPLE NO.: LBHW3 (Continued)

DATE: 12-1-98

DRESS:	Newark M			· Arr	į.	DTW	FOURA
TIME	TEMPERATURE °C	pH	CONDUCTIVITY ms/cm	TURBIDITY	D İ SSOLVED OXYGEN	e: A	LO NS
11:56	16.0	7. 18	0.844		2.07	5.18	330mg
12:01	16.2	7.18	0.844		209	5.18	300 -
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					B		

1.	STOPPED PURGING AT:	12:08
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TOTAL VOLUME PURGED: 2.

SAMPLED COLLECTED: 3.

	COMPANY:	START I	I/Rov F. Weston	Inc	SAMPLI	E NO.:	vell	4	
	CLIENT: U.	S. EPA		1	DATE:		30198		
4	SITE: F	SA DO	x BANOI		SAMPL	er. UA	ngewn	In CORPOCE	ECCHIA
	ADDRESS:_								
. , .	ADDRESS					· · -	<u>.</u>		
		· .		WELL OF	BSERVATIONS		‡ :	4 4	
	WELL CASI	NG AND LID	NTACT - DAMA	GED - MOVED - NO		•	LOCKED:	es - ио	
	WELL DIAM			· · · · · · · · · · · · · · · · · · ·			STICKUP HE	IGHT:	FT
	MEASURING	POINT: TO	OP OF CASING						
	VAPOR REA	DINGS: PID	BACKGROUND R	EADING O. LA	an-		INSIDE WEL	L CASING: 6.	5 pm
	·	FID	: BACKGROUND R	EADING	· · · · · · · · · · · · · · · · · · ·	<u>-</u>	INSIDE WEL	L CASING:	<u></u>
	NAPLLAYE	R OBSERVE	D: FLT - SNK - NON	SAM	PLED: YES - NO	+ 1	THICKNESS		_INCHES
•		:							
			G	ROUNDWATER	LEVEL INFORMA	ATION			
	М	EASURED -	RECORDED PREVIO	OUSLY	and the second s			,	
		EPTH TO W					0950	 (•
	(B) Di	EPTH TO W	ATER W/ PUMP IN T	THE WELL: 8.48	_ft (9.551) time i	MEASURED	1000	 .	
	(C) DI	EPTH TO WI	ELL BOTTOM: PLETING SAMPLIN	19.5 G)	FT TIME N	MEASURED			
	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·					
		•			PARAMETERS IN	FORMA	NOD		
	PURGING A	ND SAMPLI	NG DATE:	36-98	·		 .'	• •	
	PURGING M	ETHOD: BA		CENT. PUMP - OT	HER:		· .	•	
•	DEVICE DE		· · · · · · · · · · · · · · · · · · ·	t/ou -			-		
	PUMP/BAIL	ER INTAKE	DEPTH: TOP - BO	ттом: 13 гг	- SCREEN/WELL: 1	FT ·	WATER SURI	ACE	•
	PURGED WA	ATER: DISC	HARGED - TREAT	ED - STORED ONS	J. J.S.	•		• •	
TIM	E TEMPI	ERATURE	рН	CONDUCTIVITY	TURBIDITY	DES	SOLVED	DEPTH TO	FLOW RATE
		℃		mS/cm		OX	TYGEN	WATER	ml/min
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COMPA	NY: START II/Rov F. Weston, Inc	·	
CLIENT	U.S. EPA		
erre.	Brayenne Bruel		

DATE: 11-20-98

SAMPLER: WANDEVEN/CAPPOlecchia

DRESS:

TIME	TEMPERATURE °C	рН	CONDUCTIVITY mS/cm	TURBIDITY	DESSOLVED OXYGEN	VOLUME GALLONS
1020	16.4	6.46	2.00	49	1.84 73/2	1/2 Gallen
1030	177	6.53	2.59	37	2.58	~2 641100
1040	17.4	6.54	2.40	43 pe 35	2.49	~2.5 gcl
1045	17.7	6. 41	3-64	30	1.30	~3441
1055	17.5	6.44	3.45	221217	1.38	~341 ~#41
1103	17.5	6.47	3.51	15	1.57	~4.5441
1110	17.4	6.47	3. 66	10	1.50	~6 941
1115	17. 4	6.47	3. 6/	11	1.72	-6.5gal
1/43	17.7	6.47	3. 4/	11	1. 7ム	~7.961
1125	17.4	C.47	3.65	8	1.72	~7.554
1130	17.4	6:47	3.47	8	1.72	~ 8 561
1142	17.4	6.46	3.65	8	1.70	~9 941
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1	STOPPED PURGING AT:	1220
1.	STOLLED LONGING MI.	

3. SAMPLED COLLECTED: _____

Depth of witer after sampling - 8.40 ft 1220 w/pinp

^{2.} TOTAL VOLUME PURGED: 1/ gcl

CO3	MPANY: START I	/Rov F. Westor	n, Inc	SAMPLE	NO: MD-29	WA	
CLI CLI	ENT: U.S. EPA	7		DATE:	1211198		
,		NEB+D		SAMPLE	BR WAD	DIETON	
ADI		EWARU		SAMIFLE	C. 517	ANNIH	
	3		WELL OI	BSERVATIONS			
WE	LL CASING AND LID	NTACT DAM	AGED - MOVED - NO	NE	LOCKED: (ÈS) NO	• .
WE	LL DIAMETER: 2" (4") 6" - 8"		*	STICKUP HE	IGHT:	FT
ME	ASURING POINT: TO	OP OF CASING		±			
VA	POR READINGS: PID	: BACKGROUND I	READING	0.0	INSIDE WEL	L CASING: 6.	6
	FID	BACKGROUND	READING		INSIDE WEL	L CASING:	-
NA	PL LAYER OBSERVE	D: FLT - SNK (NO)	SAM	PLED: YES NO	THICKNESS	. NA	_ inches
(A) (B) (C)	DEPTH TO WA DEPTH TO WA	RECORDED PREVI	OUSLY 9.35 THE WELL: 9.34 9.35	_FT TIME MI	EASURED 14: CEASURED 15:	<u>00</u>	
• •				PARAMETERS INF		KE A OTHER	
	RGING AND SAMPLI		2-1-98			FOATING	
PUI	RGING METHOD: BA		P CENT. PUMP - OT				,
	VICE DESCRIPTION:	,	FOS REDIFLO	12		· · · · · · · · · · · · · · · · · · ·	,
	•				FT - WATER SURE	FACE	,
PUI	RGED WATER DISC	HARGED TREAT	ED - STORED ONSITE	I de			
TIME.	TEMPERATURE °C	рН	CONDUCTIVITY mS/cm	TURBIDITY	D İ SSOLVED OXYGEN	DEPTH TO WATER	FLOW RATE ml/min.
1408	17,3 4	6.88	1.34	30	2.26	9,34	450 M/m.
1418	17.2 "	6.93	1.34	9	2.46	9.35	500 me/m
14 27	17.2	6.89	1,36	4	2.13	9.34	500 '11
1435	17.1	6.92	1.36	1	2-19	9.34	500
1442	16,9	6.96	1,34	0	2.08	9.35	500 -

= 4 gallons at 14:30 hrs.

6.96

17.0

1448

2.08

500 -

500

COMPANY: START II/Rov F. Weston, Inc	SAMPLE NO.: HD-29 A (Continued)
CLIENT: U.S. EPA	DATE: 12-1-98
SITE: RAYONNE 8+D	SAMPLER: B. WADDLETON C. STANNIA
RESS: NEW ARK	•

TINE	TEMPERATURE °C	pH	CONDUCTIVITY ms/cm	TURBIDITY	DESSOLVED OXYGEN	VOLUME GALLONS
			n.s/cm			
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1.	STOPPED PURGING AT:	14:30
2.	TOTAL VOLUME PURGED:	x7.5ggl.

3. SAMPLED COLLECTED: /5:06

	COMPANY: START I	VRoy F. Weston	n. Inc	SAMPLE	NO.: 26/4 409	7-5	
	LIENT: U.S. EPA			DATE:	12-02-	-98	
	The BARANO	- PARKEL	" Down"	SAMPI F	E VANDERIA/	Capplece	lia
د				Crawing Co.		-7/-	
	ADDRESS:						
			•		÷.		
			WELL OI	BSERVATIONS	٠.	_	
7	WELL CASING AND LII	DINTACE DAM	AGED - MOVED - NO	NE	LOCKED:	E3 - NO	
. 1	WELL DIAMETER: 2" -	(4") 6" - 8"			STICKUP HE	IGHT:	FT
	MEASURING POIN I						
, ,	vapor readilios: Pii	BACKGROUND	reading <u>6901 m</u>	OCHSING / Elph	m BIETTAING INSIDE WEL	L CASING:	
	FII	D: BACKGROUND	READING		INSIDE WEL	L CASING:	
1	NAPL LAYER OBSERVI			PLED: YES NO	THICKNESS	SHEET	_INCHES
		SHEE	~		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
	• .		GROUNDWATER	LEVEL INFORMA	IION		
	MEASURED -	RECORDED PREV	OUSLY .				
((A) DEPTH TO W		94	FT TIME MI	EASURED		
		ATER W/ PUMP IN	THE WELL:		EASURED		
		ELL BOTTOM:			EASURED		
,		PLETING SAMPLIN					
	•	nun on			CORMATION X	SHEEN FOR	ND ON TOO
			ig and water i 2 <i>-02-9R</i>	ARAMETERS INF	ORMATION A	THE WATE	A THALE!
-	PURGING AND SAMPLI	DAID		8-3,544	· 1= 7	PURGING C.	22) 4/
]	PURGING METHOD: B	AILER - SUB. PUM	D- CENT. PUMP - OT	HER: <u>FGU FLOC</u>	· · · · · · · · · · · · · · · · · · ·	TEFION BA	ILER CO
	DEVICE DESCRIPTION				<u> </u>	0840 INDIO	ATED THA
	PUMP/BAILER INTAKE				ft Water surf	ACE THE SHE LESS TOIA	
.]	PURGED WATER: DISC	HARGED - TREAT	ED - STORED ONSITE			CONFIRMING	/1
TIME	TEMPERATURE	pН	CONDUCTIVITY	TURBIDITY	DESSOLVED	ДЕРТН ТО	FLOW RATE
	ిం		mS/cm		OXYGEN	WATER	ml/min.
750		6.45	4.29	3	2.42	ΝA	5,50
7005	- 14.7	6.53	4.23	3	3.97	NA	200
1085	13.6	6.44	4. 2.2	3	225	Ne	250
1230	16,9	6.38	4.22	3	+3 me 1.00	WE 7.94	1500
كجمار	13.2	£ 44	425 001	,	•-		
			16				

COMPANY: START II/Rov. F. Weston, Inc	SAMPLE NO.: 26/4909-5 (Continued)
CLIENT: U.S. EPA	DATE: 12.248
SITE:	SAMPLER:

RESS:					•	
TIME	TEMPERATURE	рĦ	CONDUCTIVITY mS/cm	TURBIDITY	DESSOLVED OXYGEN	VOLUME GALLONS
1035	15.4	6.43	4.22	2	2.16	
1040		6.42	4.20	0	4531.06	
1045	15 3 15 2	6.41	4.25	Ċ	076	
1035	15.7	6.40	4.34	0	0,71	
1100	15.6	6.43	4.41	0	0.81	
1/03	15.7	6.44	4,48	6	0.71	
703						
	·			-		
					·	
					-	
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		* ***				
		1	 			<u> </u>
				-		
			-		<u>, </u>	<u> </u>
		1	1	I		1

1.	STOPPED PURGING AT:
2.	TOTAL VOLUME PURGED:
2	SAMPLED COLLECTED: 110

RESS:

COM	pany: <u>START II</u>	/Rov F. Weston.	Inc	SAMPLE	NO: 26/492	20	- '
CLIE	NT: U.S. EPA		•	DATE:	12-2-98	· ·	· .
SITE	•	UNE BARI	EZ+DRUM	SAMPLE	R. C. Stanni	4/BUa	dd&fon
		ENARY					
			GED - MOVED - NO	SERVATIONS	LOCKED:(YI	E NO '	
		4" - 6" - 8"	JED - MOVED + NOI	NE.	STICKUP HE		FT
	SURING POINT: TO		***				
•	OR READINGS: PID:	* * * * * * * * * * * * * * * * * * *	ADING	18	INSIDE WEL	L CASING: 2	.2
	•	BACKGROUND RE			INSIDE WEL	L CASING:	
NAP	L LAYER OBSERVEI	D: FLT - SNK NON	SAMI	PLED: YES - NO	THICKNESS:	NA	INCHES
-	•	G	ROUNDWATER :	LEVEL INFORMA	TION		
	MEASURED - I	ECORDED PREVIO	,				
(A)	DEPTH TO WA	TER:	81	FT TIME MI	EASURED 09:YO		
(B)	DEPTH TO WA	TER W/ PUMP IN T	HE WELL: 11.80	_FT TIME MI	EASURED 09:46	·	,
(c)		LL BOTTOM: LETING SAMPLING		FT TIME MI	EASURED 11:53		
	•	nun cui		ARAMETERS INF	CORMATTON	4 LITTLE	
			2-98	ARAMETERS IN	ORWATION	FOAMING	
	GING AND SAMPLIN		CENT. PUMP - OTI	uro.		08SEL	VED
	ICE DESCRIPTION:	G 00		EULFLO 2	·	•	
	IP/BAILER INTAKE I				FT - WATER SURF	ACE	•
	·		D - STORED ONSITE		r .		
TIME	TEMPERATURE	pH	CONDUCTIVITY	TURBIDITY	DESSOLVED	DEPTH TO	FLOW RATE
0950	15.8	6.72	ms/cm 1.80	16	OXYGEN	WATER 11.85	ml/min.
6955	1b.5	6.75	1.86	0	207	11.91	450 molining
1002	16.5	6.725	1.88	1	1.98	11.91	650
1015	17.3	6.84	1.88	1	1,67	11.85	31D · u 4
1028	16.75	6.87	1.87	2	2.45	11.81	300 "
1040	18.3	6.80	1.86	\$2	2.26	11.81	u v
	O Con	troller freque	rency change	s w/o human	interferice		

CLIENT: U.S. EPA

SAMPLE NO.: 26/4 920 (Continued)

DATE: 12-2-98

SITE: BAYONNE B+D SAMPLER: 3 WADDLETON (C. STANNIK)

RESS: NEWARK

TIME	TEMPERATURE:	pН	CONDUCTIVITY mS/cm	TURBIDITY	D I SSOLVED OXYGEN	DTD VOI	ES RATE
1043	18.3	6.82	1.85	2	2.15	11.81	300 ml/ m
1057	18.6	6.80	1.85	4	2.02	11.81	300 4
1003	18,6	6.78	1.85	5	2.11	11.80	300 -
1108	18.9	6.74	1.84	4	2.01	11.80	300 -
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1. STOPPED PURGING AT: 11 00

2. TOTAL VOLUME PURGED: 8 gallous.

3. SAMPLED COLLECTED: 1/15

8 gallow jujed

SAMPLE NO.:

COMPANY: START II/Roy F. Weston, Inc

CL	ient: U.S. EPA		<u> </u>	DATE:_	12-2-98		
SIT	E: Bayou	ine Barrel	+ Drun	SAMPLE	R. B. Woold Co	ton/E &	Tanu, 6
. AD	DRESS:	reh M					
							
			WELL OI	BSERVATIONS	_		
WE	ILL CASING AND LIE	INTACT DAMA	GED - MOVED - NO	NE	LOCKEDOY	ES- NO	. ,
WE	ELL DIAMETER: 2" (4" 6" - 8"			STICKUP HI	IGHT:	FT
М	ASURING POINT: TO	OP OF CASING	e e e e	10			n
VÁ	POR READINGS: PIE	E BACKGROUND R	EADING	<u>1,8 </u>	INSIDE WEI	L CASING:	8
	FIL	: BACKGROUND R	EADING		INSIDE WEI	L CASING:	
NA	PL LAYER OBSERVE	:D: FLT - SNK - NON	SAM	PLED: YES - NO	THICKNESS	<i>NA</i>	INCHES .
							
•			ROUNDWATER	LEVEL INFORMA	TION		
	MEASURED -	RECORDED PREVI	OUSLY		. 20.		
. (A)			0: 4:	FT TIME M	EASURED 1324		
(B)	DEPTH TO W	ATER W/ PUMP IN	THE WELL 21.41	_FT TIME M	EASURED 1334		
(C)	DEPTH TO W	ELL BOTTOM: PLETING SAMPLIN		FT TIME M	EASURED	<u> </u>	
	•	nim an		A D A DETERMINE TANK	CORRELETION		
			2-2-98	ARAMETERS IN	URMATION	٠. ٠	
	RGING AND SAMPLI			·			
		~ ~	CENT. PUMP - OT	HER: TLO	· · · · · · · · · · · · · · · · · · ·		
	VICE DESCRIPTION:		•	SCREENWELL: 23	<u> </u>		
	MP/BAILER INTAKE	<u> </u>	FTOM:FT ED - STORED ONSITE	<u> </u>	<u>J ft</u> - water sur	FACE	
PU	RGED WATER DISC	HARGED / TREAT	ED - STORED ONSITE	·	,		
TIME	TEMPERATURE	рН	CONDUCTIVITY ms/cm	TURBIDITY	DESSOLVED OXYGEN	DEPTH TO WATER	FLOW RATE
1400	16.0	6.76	1.98	17	0.79	21.4/	450 11/2
1407	16.2	6.79	1.96	32	1.05	21.50	500 MI/M
1413	16.2	6.77	1.97	24	0.87	21.50	500 4/1/1
1421	16-1	6.79	1.97	15	0.80	21.50	500° NI /AI
1430	15.8	6.77	1.97	10	0.87	21.50	570 M/NI
1439	15.9	6.80	1.96	7	0.86	21.50	550 M/M
							

COMPANY: START IVROV F. Weston, Inc	SAMPLE NO.: BBO-C/ (Contin
CLIENT: U.S. EPA	 DATE: 12/2/98
SITE: BAJONNE BARREL + Drun	SAMPLER: B WORD/GTON/
RESS: Newsork	

RESS:	JU COU AST		· - ·	*			~//
1450	TEMPERATURE °C	pH	CONDUCTIVITY mS/cm	TURBIDITY	DESSOLVEI OXYGEN	Water	VOLUME FOR
1450	15.8	6.8/	1.96	6		0/50	325 500 MI/
			•				
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		,					

STOPPED PURGING AT: 1455 1.

TOTAL VOLUME PURGED: 9 64 110~5

SAMPLED COLLECTED: 1500 2.

co	MPANY: START I	I/Rov F. Weston	n, Inc	SAMPLE	SAMPLE NO.: BBD - < 3						
CL	ENT: U.S. EPA			DATE: _	11-30-0	18-12-01-	-98				
sñ		e Barnel		SAMPLE	R. NANDEVEN	Lapuc	,				
	DRESS:				•						
			WELL O	BSERVATIONS	!		 				
WE	LL CASING AND LIE	: (NTACT) - DAM	AGED - MOVED - NO	NE	LOCKED: (YES) NO					
WE	LL DIAMETER: 2" •	47 - 67 - 8"			STICKUP H	EIGHT:	FT \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
ME	ASURING POINT: TO	OP OF CASING					, B.				
VA	POR READINGS: PIL	BACKGROUND	reading <u>O</u> 4	ppm	INSIDE WE	LL CASING: O	PIN				
	FIL	: BACKGROUND	READING		INSIDE WE	LL CASING:					
NA	PL LAYER OBSERVE	D: FLT - SNK - NO	N SAM	PLED: YES - NO	THICKNES	s:	INCHES				
PU. PU. PU. PU. PU.	GROUNDWATER LEVEL INFORMATION MEASURED - RECORDED PREVIOUSLY (A) DEPTH TO WATER:										
TIME	TEMPERATURE ℃	pH	CONDUCTIVITY mS/cm	TURBIDITY	DESSOLVÉD OXYGEN	DEPTH TO WATER	FLOW RATE ml/min				
0900	13.6	6.45	6.25	20	0./						
0910	14	7-10	6.1			·					
2770	14.9	7.08	6.09	73	3.27	5.57	360/ /1				
5930	15.3	7.//	6.08	4	2.50	5.57	<u> </u>				
			•	·							

COMPANY: START II/Rov F. Weston, Inc	
CLIENT: U.S. EPA	
SITE:	

SAMPLE NO.: /3/3/D-4/3 (Continued)

DATE: /2 -6/-4/8

SAMPLER:

DRESS:

TIME	TEMPERATURE C	pН	CONDUCTIVITY mS/cm	TURBIDITY	DESSOLVED OXYGEN	VOLUME GALLONS
740,935	15.5	7.11	6.05	3	2 13	~ Laction
990	15.5	7.10	6.03	3	234	-4.5 gillong
745	15.6	7.08	6.01	Ч	1.70	6 41/00
1000	15.6	7.68	5.98	4	1.40	~ 1 40110x3
1010	15.7	7.06	5.95	3	135	~9 qilans
1052	15.8	7.06	5.94	Xmc 3	1,60	~10 gellong
ic 35	15.9	7.05	5,92	3	1.52	~11 GAILAS
1045	16.0	7.66	5.91	√3	1,13	~11.554/1035
1100	16.1	7.07	5 91	3	1.26	-id-quillens
1115	15.7	7.06	5.91	2	1.50	~13 44 /loxs
1130	15.8	7.05	5.91	2	1.29	~13:5 gillors
1138	15.8	7.05	5.91	~	1.26	-13.8 aul.
-		<u> </u>			1.25	~14g=/10n
-		<u> </u>				,
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					8	

1. STOPPED PURGING AT: 449 12

2. TOTAL VOLUME PURGED: 14 g . 1/on s

3. SAMPLED COLLECTED: 445 M 1206

Had depth w/ pump 5.57

	COMPANY: START I	I/Roy F. Weston	n, Inc	SAMPLE	NO: 0 ~ 0		
	CLIENT: U.S. EPA	· · · · · · · · · · · · · · · · · · ·	·	DATE:	11/30/98		
Ş	SITE: BAYONA	ve BASTE	·/	SAMPLE	R.B. WAdd RTO-	U/C. 5TA	NNIK
	ADDRESS: New.						
			WELL OR	SERVATIONS			
	WELL CASING AND LID	NTACZ - DAM	AGED - MOVED - NO		LOCKED:	ES NO	
	WELL DIAMETER: 2" /				STICKUP HE	•	FT
	MEASURING POINT: TO	• • • • • • • • • • • • • • • • • • • •	•			ı	
	VAPOR READINGS: PID		reading O. (<u> </u>	INSIDE WEL	L CASING: 3	py
		BACKGROUND			INSIDE WEL	L CASING:	
1	NAPL LAYER OBSERVE		SAMI	PLED: YES-NO NA HYDROCAEBON	THICKNESS		_INCHES
				, ,	GREEM YEL	100 TIME	
			GROUNDWATER	LEVEL INFORMA	IION		
		RECORDED PREV			207		
((A) DEPTH TO W	ATER:	16	FT TIME MI	CASURED 0920		
	(B) DEPTH TO W.	ATER W/ PUMP IN	THE WELL:	_FT TIME MI	EASURED		
		ELL BOTTOM: PLETING SAMPLIN		FT TIME MI	EASURED		
	•						• •
			ng and water P 30 ge	ARAMETERS INF	ORMATION		
	PURGING AND SAMPLI			1011	cou Grund	a ,	
	,	G.D.	CENT. PUMP - OTT		<u> </u>	ru J	
	DEVICE DESCRIPTION:		1	DIFWW2		· ·	,
	PUMP/BAILER INTAKE			screenwell:2	FT - WATER SURI	FACE	
. 1	PURGED WATER: DISC	HARGED - TREAT	ED - STORED ONSITE	;			
TIME	TEMPERATURE °C	рН	CONDUCTIVITY mS/cm	TURBIDITY	DESSOLVED OXYGEN	DEPTH TO WATER	FLOW RATE ml/min.
1003	5 15.8	6,8/	2.05	-10	2.10	19,19	500 melmin
10:10	15.8	6.86	1.93	-10	1.96	19.19	250 -
12:2	7 16.7	6.85	207	14	2.15	19,19	450 .
10.48	16.6	6.24	2.17	12	2.19	19.19	600°ml/m
10:5		6.86	220	٦	1.3.4.	19.19	500 me/a
11.0		(100	210	Ш	- 1.8	10 19	1,50 01

5 gallon at 10:28 hrs. 10 gallons at 10:55 hrs.

COMPANY: START IVROV F. Weston, Inc					
CLIENT	U.S. EPA				
		Parel + Dr.			

SAMPLE NO.: BBD-C4 (Continued)

SAMPLER: Stannil/Deddleton

FIDU RANT

					•	TLOURAGE
TIME	TEMPERATURE °C	рH	CONDUCTIVITY mS/cm	TURBIDITY	DESSOLVED OXYGEN	VOLUME POPPERATIONS
11:05	17.3	686	2.20	6	1.28	19.19 450 ml/m
11:16	17.6	6.89	2.20	3	1.30	19,19
11:26	17.8	6.86	2.14	12	(ABORTED)	19.19 —
11:43	16.0	6.81	228	7	0.88	19.19 340
11:46	16.6	6.82	2.31	3	0.29	1918 -
11:46 11:49	17.3	6.83	2.27	4	0.13	19,19 -
11:53	17.4	~6.88	2.23	4	1.01	19.19
12:00	17.8	6.88	2.21	8	i.H	19.19 350
12:05	7.8	6.88	216	10	1.22	19.19 -
1245	15.7	6.83	7.34	4	1.03	19.19
1250	16.6	6.80	2.37	5	0.66	19-19
1255	16.6	6.85	7.33	4	1.01	19-19
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			are a later to the contract of			
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STOPPED PURGING AT: 1.

TOTAL VOLUME PURGED:

SAMPLED COLLECTED: _

PH AND SAMPLERS MADE

DECISION TO COLLECT SAMPLE AT 1300 HRS.

DESPITE FLUCTUATION IN DISSOLVED

OXYGEN; FLOU RATE OF PUBP

PREJENTED A PROBLETY.

	COMPANY: STÂRT	II/Rov F. Westo	n, Inc	SAMPLI	ENO.: BBD-	C5	
	CLIENT: U.S. EPA				DATE: 12-01-98		
s	BAYO,	NME BARR	el + gran	SAMPLI	9 /1000	ETON)	
		NEWARK				STANMU	*
					<u>.</u>		
	WELL CASING AND LI	DATE DAY		BSERVATIONS	LOCKED:(2	
	well casing and it		AGED - MOVED - N	JNE	,	,	-
•	MEASURING POINT: T				STICKUP H	EIGHT:	F1
	/APOR READINGS: PI		READING	0.4	INSIDE WE	LL CASING: 6	2
•		D: BACKGROUND				LL CASING:	_
7	NAPL LAYER OBSERV	:		APLED: YES - NO	•	S:	INCHES
··· ·				· · · · · · · · · · · · · · · · · · ·		17.6	
•		•	GROUNDWATER	LEVEL INFORMA	TION :	Volume:	•
	MEASURED .	- RECORDED PREVI	OUSLY			8.2	29
(A) DEPTH TO W	ATER:	5.73	_FT TIME M	EASURED		73
	B) DEPTH TO W	ATER W/ PUMP IN	THE WELL: NA	FT TIME M	EASURED NA	2.5	
	C) DEPTH TO W	ELL BOTTOM:	8.29	_FT TIME M	easured 08:3) /	2256
P	PURGING AND WATER PARAMETERS INFORMATION PURGING AND SAMPLING DATE: 12-01-98						
P	URGING METHOD, B	AILER - SUB. PUM	P - CENT. PUMP - OT	THER: Y WELL A	NOULI) NET SUPPLY		
Ľ	DUE TO LOW VOLUME AND PURK DEVICE DESCRIPTION: POLY Recurrent Good						
P	UMP/BAILER INTAKE	DEPTH: TOP - BO	TTOM: FT	- SCREEN/WELL:	-661-9 (7/3)	FACE	•
· P	PURGED WATER: DISCHARGED - TREATED - STORED ONSITE						
TIME	TEMPERATURE	pН	CONDUCTIVITY	######################################			
	°C		CONDUCTIVITY mS/cm	TURBIDITY	DESSOLVED OXYGEN	DEPTH TO WATER	FLOW RATE ml/min.
D840	12.6	6.81	.727	355	1.72	N/A	N/A.
	1		·				
	+ **			Y POOR -1			1
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		1 ' 1		WER AND S		,	
		PALAMET	TRE AS PUSS	VALE AS PER	EPA REGIO	II PRUSOC	C PB)
	XX	SAMPLE	0 1530	ON 12/1/98	By Coppor	ECCHIA AN	W -

VANDEVEN VIA TEFLON BAILER AS PER THE INSTRUCTIONS BY
OF PM JOHN BREWNAN. PARAMETERS SAMPLED FOR TO

CLIENT: U.S. EPA SITE:			SAM	98	•	
PRESS:			·		· ·	
TIME	TEMPERATURE.	pH.	CONDUCTIVITY mS/cm	TURBIDITY	DZSSOLVED OXYGEN	DTW WOLLSTE
			12-2-98-			
0835	11.8	6,39	0.597	26	1.12	5.83
		<u> </u>	A7			
		41/	,,,,			
			ivolatiles sa		0835	
		00 12	12/98 uca	teton bail	er to	
		COMP	Lete Sumping	of this we	(%)	
				7.		
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1,	STOPPED PURGING AT:	DTW AFTER TCL SETILVEZ
2.	TOTAL VOLUME PURGED:	
3	SAMPLED COLLECTED.	SATTRING (12-2-98); 6.92